

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 073 26083

Approval Date: 05/30/2018

Expiration Date: 11/30/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 16N Rge: 9W

County: KINGFISHER

SPOT LOCATION: ☐ NE ☐ SE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 855 1180

Lease Name: RAPTOREX

Well No: 1609 5H-5X

Well will be 855 feet from nearest unit or lease boundary.

Operator Name: NEWFIELD EXPLORATION MID-CON INC

Telephone: 2816742521; 9188781

OTC/OCC Number: 20944 0

NEWFIELD EXPLORATION MID-CON INC
24 WATERWAY AVE STE 900
THE WOODLANDS, TX 77380-2764

JAMES E. STOCK, SUCCESSOR TRUSTEE
P.O. BOX 675
KINGFISHER OK 73750

Formation(s) (Permit Valid for Listed Formations Only):

	Name	Depth	Name	Depth
1	MISSISSIPPIAN (EX CHESTER)	8979	6	
2	WOODFORD	9579	7	
3			8	
4			9	
5			10	

Spacing Orders: 646569
649578

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201803979
201803980
201803981
201803977
201803978

Special Orders:

Total Depth: 19267

Ground Elevation: 1214

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 490

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

Approved Method for disposal of Drilling Fluids:

B. Solidification of pit contents.

H. SEE MEMO

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 08 Twp 16N Rge 9W County KINGFISHER

Spot Location of End Point: SE SW SW SW

Feet From: SOUTH 1/4 Section Line: 85

Feet From: WEST 1/4 Section Line: 380

Depth of Deviation: 8360

Radius of Turn: 477

Direction: 190

Total Length: 10158

Measured Total Depth: 19267

True Vertical Depth: 9579

End Point Location from Lease,
Unit, or Property Line: 85

Notes:

Category

Description

DEEP SURFACE CASING

5/24/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

5/24/2018 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

INTERMEDIATE CASING

5/24/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

5/24/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS PER OPERATOR REQUEST; WBM, WBM & OBM CUTTINGS CAPTURED IN STEEL HALF PITS & TRANSFERRED TO R360 (ORDER #587498); PIT 2 - OBM TO VENDOR

This permit does not address the right of entry or settlement of surface damages.

073 26083 RAPTOREX 1609 5H-5X

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
PENDING CD - 201803977	5/30/2018 - G75 - (E.O.) 5 & 8-16N-9W EST MULTIUNIT HORIZONTAL WELL X646569 MSNLC, WDFD 5-16N-9W X649578 MSNLC, WDFD 8-16N-9W (WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSNLC) 50% 5-16N-9W 50% 8-16N-9W NEWFIELD EXPLOR. MID-CONT. INC. REC 5-22-2018 (JOHNSON)
PENDING CD - 201803978	5/30/2018 - G75 - (E.O.) 5 & 8-16N-9W X646569 MSNLC, WDFD 5-16N-9W X649578 MSNLC, WDFD 8-16N-9W COMPL. INT. (5-16N-9W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (8-16N-9W) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL NEWFIELD EXPLOR. MID-CONT. INC. REC 5-22-2018 (JOHNSON)
PENDING CD - 201803979	5/30/2018 - G75 - 5-16N-9W X646569 MSNLC 3 WELLS NO OP. NAMED HEARING 6-4-2018
PENDING CD - 201803980	5/30/2018 - G75 - 8-16N-9W X649578 MSNLC 3 WELLS NO OP. NAMED HEARING 6-4-2018
PENDING CD - 201803981	5/30/2018 - G75 - (E.O.) 5 & 8-16N-9W X165:10-3-28(C)(2)(B) MSNLC (RAPTOREX 1609 5H-5X) MAY BE CLOSER THAN 600' FROM EXISTING/PROPOSED WELLS NEWFIELD EXPLOR. MID-CONT. INC. REC 5-22-2018 (JOHNSON)
SPACING - 646569	5/30/2018 - G75 - (640)(HOR) 5-16N-9W VAC 89911 MSSSD N2 & SW4 VAC 89911 MNNG NW4 & NE4 EXT 639140 MSNLC, WDFD EST OTHER POE TO BHL (MSNLC) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST SP. ORDER # 89911 MSSSD SE4 & MNNG S2)
SPACING - 649578	5/30/2018 - G75 - (640)(HOR) 8-16N-9W EST MSNLC, WDFD, OTHER POE TO BHL (MSNLC) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST SP. ORDER # 96892 MNNG, MSSSD)

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

PERMIT PLAT

M & M Land Surveying, Inc.
Phone (580) 226-0446
520 E Street N.W.
Ardmore, OK 73401

API 073-26083

Company Name: **NEWFIELD EXPLORATION MID-CONTINENT INC.**

Lease Name: **RAPTOREX 1609 5H-5X**

Section 5 Township 16 N Range 9 W , I.B.M. County of Kingfisher, State of Oklahoma
Elevation Good Location?

Original Location: 855'FNL - 1180'FWL 1214' GROUND YES

Distance & Direction From Nearest Town: 13.7 miles Northeast of Watonga

SURFACE LOCATION

DATUM: NAD27

LAT: 35° 53' 46.39"N

LONG: 98° 11' 07.69"W

LAT: 35.896219°N

LONG: 98.185468°W

STATE PLANE

COORDINATES: (US

SURVEY FEET)

ZONE: NORTH ZONE

Y (N): 326282.73

X (E): 1945065.6

DATUM: NAD83

LAT: 35° 53' 46.54"N

LONG: 98° 11' 08.92"W

LAT: 35.896260°N

LONG: 98.185810°W

STATE PLANE

COORDINATES: (US

SURVEY FEET)

ZONE: NORTH ZONE

Y (N): 326306.37

X (E): 1913465.7

DATA DERIVED FROM

G.P.S. WITH O.P.U.S.

DATA.

This location has been staked according to the best official survey records available to us. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified. Please review this plat and notify us immediately of any discrepancy.

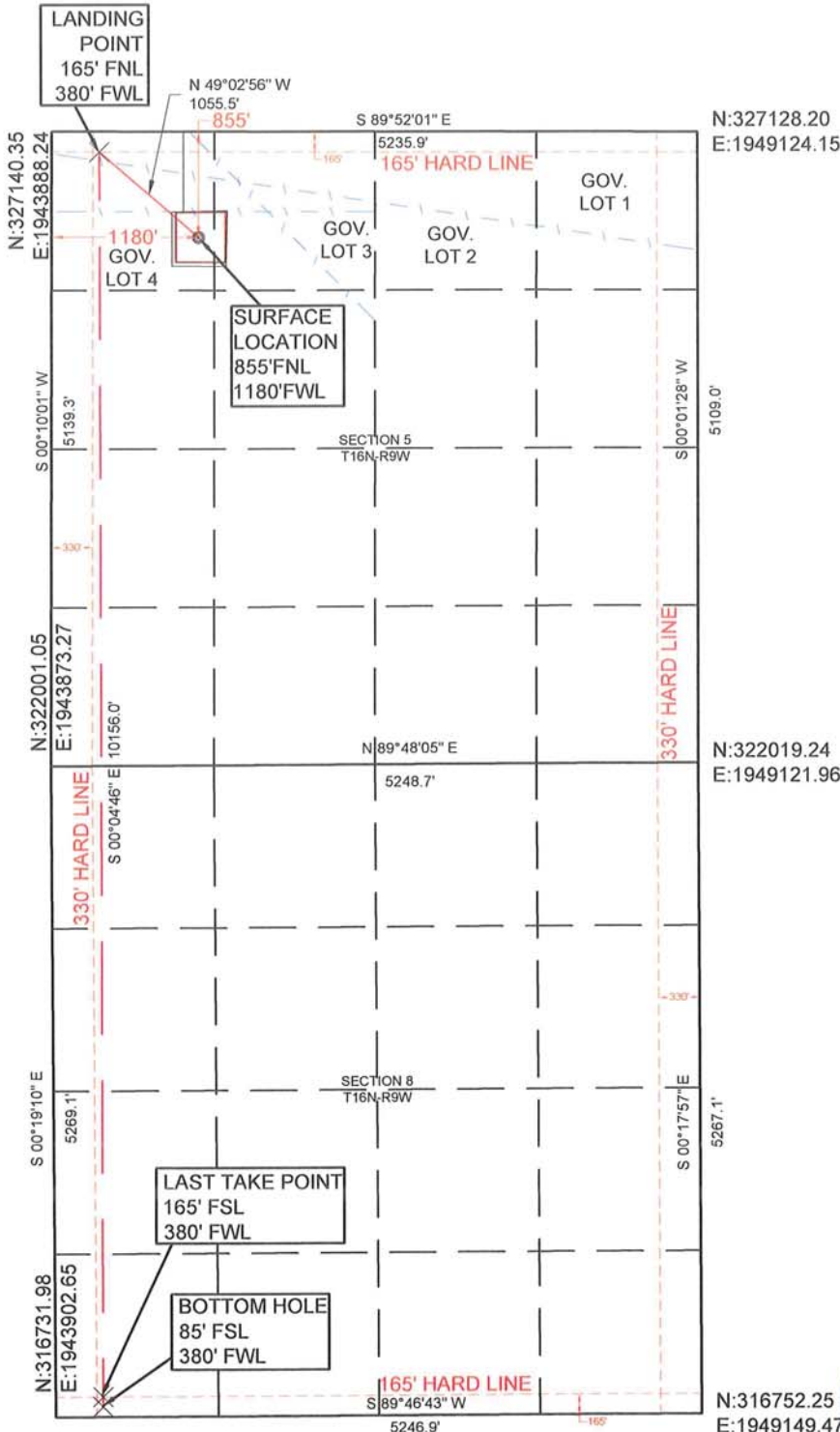
CERTIFICATE:

I D. Harry McClintick a Registered Land Surveyor in the State Of Oklahoma, do hereby certify that the above described Well Location was surveyed and staked on the ground as shown and that said plat meets or exceeds the Oklahoma Minimum Technical Standards for the practice of land surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.



D. Harry McClintick 5/14/18

D. Harry McClintick
PLS. No.1367 CFEDS



SURVEY BY: M & M Land Surveying, Inc. ~ C.A. No. 3093 (LS)	
DRAWING BY: Bennett-Morris And Associates Land Surveying, P.C.	
© COPYRIGHT 2017	C.A. No. 5975 (LS) ~ Aaron L. Morris, RPLS
PROJECT NUMBER: 18199	SITE VISIT: (Explanation and Date)
SHEET: 6 OF 10	STAKING DATE: 05/08/2018
	DRAWING DATE: 05/10/2018